



EXPLANATION

- |                             |      |  |                            |
|-----------------------------|------|--|----------------------------|
| Recent                      | Qal  | Alluvium<br>Unconsolidated gravel, sand and silt along streams   | QUATERNARY                 |
|                             | Qalo | Older alluvium<br>Semiconsolidated gravel, sand, and silt  |                            |
| Pleistocene and Recent(?)   | QTp  | Paso Robles Formation<br>Pebble conglomerate, sandstone, and mudstone; nearly all pebbles are of siliceous rocks common in the Monterey Shale; a hard siliceous conglomerate present at base in most places; nonmarine | TERTIARY AND QUATERNARY(?) |
|                             | Tu   | Unnamed formation<br>Fine-grained sandstone, coarse-grained and pebbly sandstone, mudstone, and claystone; marine fossils locally abundant   |                            |
| Pliocene and Pleistocene(?) | Tm   | Monterey Shale   | TERTIARY                   |
|                             | Tms  | Tm, mudstone, porcellaneous mudstone, porcellaneous shale, fine-grained sandstone, carbonate beds, and carbonaceous concretions; marine fossils locally abundant   |                            |
| Pliocene                    | Tv   | Vaqueros Formation<br>Tv, upper member: sandstone and siltstone, contains marine fossils<br>Tvl, lower member: sandstone and conglomerate, thickbedded, unfossiliferous  | TERTIARY                   |
|                             | Tr   | Reliz Canyon Formation<br>Tr, undivided formation: sandstone, arkosic, massive, medium-to coarse-grained<br>Tru, upper member: sandstone, arkosic, massive, medium-to coarse-grained                                   |                            |
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- |                    |   |
|--------------------|---|
| ---                | Contact<br>Dashed where gradational or approximately located; short dashed where inferred |
| - - - - -          | Fault<br>Dashed where approximately located; short dashed and queried where inferred      |
| ~ ~ ~ ~ ~          | Anticline<br>Showing approximate trace of axial plane                                     |
| ~ ~ ~ ~ ~          | Syncline<br>Showing approximate trace of axial plane                                      |
| 20                 | Strike and dip of beds  |
| 30                 | Strike and dip of vertical beds   |
| ⊕                  | Horizontal beds   |
| →                  | Approximate direction of dip of poorly exposed beds                                       |
| ×M918              | Fossil locality<br>Numbered according to list of fossil localities in text                |
| -----              | Measured section<br>Numbered according to descriptions in text under "Measured sections"  |
| ○ 39               | Oil and gas wells   |
| ●                  | Dry hole  |
| ●                  | Producing well<br>Numbered as in table 2  |
| (5) (5)<br>(7) (8) | Projected section lines, dotted;<br>numbers of projected sections in parenthesis          |

GEOLOGIC MAP OF THE THOMPSON CANYON QUADRANGLE, MONTEREY COUNTY, CALIFORNIA

